

## MANAGEMENT OF MEMORY FOR PROVIDING DATA STORAGE ACROSS A REBOOT

5

### ABSTRACT

10

F  
E  
N  
W  
I  
C  
K  
A  
N  
D  
W  
E  
S  
T  
L  
L  
P  
A  
T  
E  
N  
T  
A  
T  
T  
O  
R  
N  
E  
Y  
S  
P  
A  
C  
E

Embodiments of a memory management system for use in a circuit pack or circuit card such as in a node in an optical network are described. The memory management system comprises memory that provides persistent storage over a reboot and a memory manager for directly controlling access to the memory. The memory manager processes requests received from the one or more applications executing on the card for storage of a set of data. The request indicates during which type of reboot the data is to be received and may also indicate a particular state during a reboot in which the data is to be received. The manager responds to a reboot of the card by providing the set of data from the reboot persistent memory to the application during the reboot.